

Notice of Allowability	Application No.	Applicant(s)	
	10/035,954	MEIER, ROBERT C.	
	Examiner	Art Unit	
	Nghi V. Tran	2151	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 01/12/2006.
2. ☒ The allowed claim(s) is/are 1,3,4 and 9-16.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |


ZARNI MAUNG
SUPERVISORY PATENT EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Larry B. Donovan (Reg.# 47,230) on February 22, 2006.

3. The application has been amended as follows:

In the claims

Claim 1

1. (Currently Amended) A method for a DHCP client to send a DHCP request to a DHCP server via a BOOTP Relay Agent, the DHCP client contained in a Mobile Host having a MAC address and having MAC layer connectivity with a foreign agent having a MAC address and a care of IP address, the BOOTP Relay Agent being coupled to a home agent having an address, the step comprising:

A) sending a mobile IP Registration Request message and a Mobile IP Registration Reply message to establish a Mobile IP forward tunnel and a Mobile IP reverse tunnel, the Mobile IP Registration Request

having a Mobile Host Identifier that is set to the MAC address of the Mobile Host, and the Mobile IP Registration Reply message having a Mobile Host Identifier that is set to the address of the Mobile Host, wherein the MAC address of the Mobile Host is used to identify mobility bindings for the Mobile Host;

B) generating a DHCP request, the DHCP request having a protocol field, and a source IP address and a giaddr field, the protocol field containing the MAC address of the Mobile Host, and the source IP address is zero, and the giaddr field is zero;

C) sending the DHCP request to the foreign agent;

D) adding an encapsulation header by the foreign agent;

E) sending the request to the home agent;

F) removing the encapsulation header; and

G) forwarding the request to a home subnet[. .];

H) generating a DHCP reply, the DHCP reply having a protocol field, the protocol field containing the MAC address of the Mobile Host;

I) sending the DHCP reply across the home subnet to the home agent;

J) adding an encapsulation header to the reply by the home agent;

K) forwarding the reply to the foreign agent;

L) removing the encapsulation header by the foreign agent; and

Art Unit: 2151

M) forwarding the reply to the mobile host;

wherein the DHCP client obtains an IP address from a DHCP server on the home subnet via the Mobile IP forward tunnel.

Claim 2

Please cancel claim 2.

Claim 9

9. (Currently Amended) A method for a DHCP client for obtaining an IP address from a DHCP server, the DHCP client being connected to a foreign subnet having a foreign agent, the foreign agent having a care of address, a home subnet having a home agent, the home agent having an address, comprising the following steps in the sequence set forth:

A) sending a mobile registration request having a MAC address as a mobile host identifier;

B) generating a DHCP request by the client, the DHCP request having a protocol field ~~and~~, a source IP address field and a giaddr field, wherein the protocol field being set to the MAC address of the mobile host, ~~and the source IP address field is set to 0,~~ and the giaddr field is set to 0;

C) adding a first inner IP encapsulation header and a first outer IP encapsulation header to the DHCP request;

Art Unit: 2151

- D) sending the DHCP request to the home subnet;
 - E) removing the first inner IP encapsulation header and first outer IP encapsulation header from the DHCP request;
 - G) generating a reply to the DHCP request;
 - H) adding a second inner IP encapsulation and a second outer IP encapsulation header to the reply;
 - I) sending the reply to the foreign subnet;
 - J) removing the second outer encapsulation header and the second inner encapsulation header; and
 - K) forwarding the reply to the DHCP client[.];
- wherein the DHCP server is on the home subnet and the DHCP client obtains an IP address from the reply sent by the DHCP server.

Claim 10

10. (Currently Amended) The method of claim 9 wherein the DHCP request includes a giaddr field, the first inner IP encapsulation header having a source address and a destination address, ~~step A)~~ the adding a first inner IP encapsulation header further comprising:

- 1) ~~setting the giaddr field to 0;~~
- 2) ~~setting the first inner IP encapsulation header destination IP address to indicated that the DHCP client does not have an IP address.~~

Claim 17

Please cancel claim 17.

Allowable Subject Matter

4. Claims 1, 3-4, and 9-16 are allowed.
5. This communication warrants no examiner's reason for allowance, as applicant's reply makes evident the reason for allowance, satisfying the record as whole as required by rule 37 CFR 1.104 (e). In this case, the substance of applicant's remarks filed on January 12, 2006 with respect to the amended claim limitations point out the reason claims are patentable over the prior art of record. Thus, the reason for allowance is in all probability evident from the record and no statement for examiner's reason for allowance is necessary (see MPEP 13202.14).
6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Art Unit: 2151

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nghi V. Tran whose telephone number is (571) 272-4067. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on (571) 272-3939. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nghi V Tran
Patent Examiner
Art Unit 2151

NT


ZARNI MAUNG
SUPERVISORY PATENT EXAMINER